CLAIMS

What is claimed is:

1. A method for the synthesis of a compound of Formula Ia:

wherein:

 R^1 is selected from the group consisting of $-C_{1-14}$ alkyl and $-(CH_2)_{0-4}$ -aryl;

 R^2 is selected from the group consisting of $-C_{1-14}$ alkyl, $-(CH_2)_{0-2}$ -cycloalkyl, $-C_{2-6}$ alkenyl, $-(CH_2)_{1-4}$ -aryl, $-(CH_2)_{0-4}$ -heterocycloalkyl, $-(CH_2)_{1-4}$ -heteroaryl and

 $-(CH_2)_{0-2}-O-aryl;$

 R^3 is selected from the group consisting of $-C_{1-14}$ alkyl, $-(CH_2)_{0-2}$ -cycloalkyl, $-C_{2-6}$ alkenyl, $-(CH_2)_{1-4}$ -aryl, $-(CH_2)_{0-4}$ -heterocycloalkyl, $-(CH_2)_{1-4}$ -heteroaryl and $-(CH_2)_{0-2}$ -O-aryl; or R^2 and R^3 can be taken together with the nitrogen atom to which they are attached to form a heterocycloalkyl; and

 R^4 is selected from the group consisting of H, $-C_{1-14}$ alkyl, $-(CH_2)_{0-2}$ -cycloalkyl, $-C_{2-6}$ alkenyl, $-C_{2-8}$ alkynyl and $-(CH_2)_{1-2}$ -neterocycloalkyl; which comprises the steps of :

(a) reacting a compound of Formula 1:

with an alkylating agent of Formula (2):

$$R^1-X$$
 (2)

in the presence of a deprotonation agent in a suitable solvent; where X is iodo or bromo

and R¹ is as defined above, to yield an ether compound of Formula (3):

(b) reacting a compound of Formula (3) with a hydrolysing agent to form a diol compound of Formula (4):

(c) reacting a compound of Formula (4) with a cleaving agent in a suitable solvent to form an aldehyde compound of Formula (5):

(d) reacting a compound of Formula (5) with a secondary amine compound of Formula (6):

R^2R^3NH (6)

where R² and R³ are as defined above, and a reducing agent in a suitable solvent followed by treatment with a reducing agent scavenger resin in a suitable solvent and an amine scavenger resin in a suitable solvent to form a tertiary amine compound of Formula (7):

R⁴ÒH

(e) reacting a compound of Formula (7) with a compound of Formula (8):

(8)

where R⁴ is selected from the group consisting of H, -C₁₋₁₄alkyl, -(CH₂)₀₋₂-cycloalkyl, -C₂₋₆alkenyl, -C₂₋₈alkynyl and -(CH₂)₁₋₂-heterocycloalkyl, and an acid in a suitable solvent followed by treatment with an acid scavenger resin in a suitable solvent to form a compound of Formula Ia.

- 2. The method of Claim 1 wherein the suitable solvents are independently selected from the group consisting of dichloromethane, tetrahydrofuran, 1,4-dioxane, lower alkyl alcohols, and mixtures thereof.
- 3. The method of Claim 1 wherein the deprotonation agent in step (a) is KOH or potassium tert-butoxide.
- 4. The method of Claim L wherein the hydrolysing agent in step (b) is 70% acetic acid in water.
- The method of Claim 1 wherein the cleaving agent in step (c) is NaIO₄ adsorbed on silica gel.
 - 6. The method of Claim 1 wherein the reducing agent in step (d) is selected from the group consisting of NaBH(OAc)₃, NaBH₄, BH₃ in pyridine, and H₂/Pd catalyst.
 - 7. The method of Claim 1 wherein the amine scavenger resin in step (d) is solid support-bound isocyanate or benzyloxybenzaldehyde resin.

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- 8. The method of Claim 1 wherein in step (d) an excess of the secondary amine compound of Formula (6) is used.
- 5 9. The method of Claim 1 wherein in step (d), an excess of the reducing agent is used.
 - 10. The method of Claim 1 wherein the acid in step (e) is selected from the group consisting of HCl, triflic acid, HBr, trifluoroacetic acid, H₂SO₄ and p-toluenesulfonic acid.
 - 11. The method of Claim 1 wherein the acid scavenger resin in step (e) is solid support-bound methylpiperidine resin.
 - 12. A method for the synthesis of a compound of Formula Ib:

wherein:

 R^1 is selected from the group consisting of $-C_{1-14}$ alkyl and $-(CH_2)_{0-4}$ -aryl; R^3 is selected from the group consisting of $-C_{1-14}$ alkyl, $-(CH_2)_{0-2}$ -cycloalkyl,

-C₂₋₆alkenyl, -(CH₂)₁₋₄-aryl, -(CH₂)₀₋₄-heterocycloalkyl, -(CH₂)₁₋₄-heteroaryl and -(CH₂)₀₋₂-O-aryl; or R⁶ and R³ can be taken together with the carbon and nitrogen atoms, respectively, to which they are attached to form a heterocycloalkyl containing an oxo (=O) substitution at the carbon atom; and

 R^6 is selected from the group consisting of $-C_{1-4}alkyl$, $-(CH_2)_{0-2}$ -O-aryl, $-C_{2-6}alkenyl$, $-(CH_2)_{0-2}$ -cycloalkyl and $-(CH_2)_{1-4}$ -aryl; which comprises the steps of :

(a) reacting a compound of Formula (1):

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with an alkylating agent of Formula (2):

 $R^{I}_{\overline{I}}X$ (2)

in the presence of a deprotonation agent in a suitable solvent; where X is iodo or bromo and R¹ is as defined above, to yield an ether compound of Formula (3):

(b) reacting a compound of Formula (3) with a hydrolysing agent, to form a diol compound of Formula (4):

(c) reacting a-compound of Formula (4) with a cleaving agent in a suitable solvent to form an aldehyde compound of Formula (5):

(d') reacting a compound of Formula (5) with a primary amine compound of Formula (6'):

 R^3NH_2 (6')

where R³ is as defined above, and a reducing agent in a suitable solvent followed by treatment with a reducing agent scavenger resin in a suitable solvent and an amine

(e') reacting a compound of Formula (7') with an acid chloride compound of Formula (9):

(9)

where R⁶ is as defined above, and a suitable base in a suitable solvent followed by treatment with an acid chloride scavenger resin in a suitable solvent to form a compound

13. The method of Claim 12 wherein the suitable solvents are independently selected from the group consisting of dichloromethane, tetrahydrofuran, 1,4-dioxane, lower alkyl alcohols, and mixtures thereof.

R⁶COCl

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of Formula Ib.

- 14. The method of Claim 12 wherein the deprotonation agent in step (a) is KOH or potassium tert-butoxide.
- 15. The method of Claim 12 wherein the hydrolysing agent in step (b) is 70% acetic acid in water.
- 16. The method of Claim 12 wherein the cleaving agent in step (c) is NaIO₄ adsorbed on silica gel.
- The method of Claim 12 wherein the reducing agent in step (d') is selected from the group consisting of NaBH(OAc)₃, NaBH₄, BH₃ in pyridine and H₂/Pd catalyst.

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- 18. The method of Claim 12 wherein the amine scavenger resin in step (d') is solid supportbound isocyanate.
- 19. The method of Claim 12 wherein in step (d'), an excess of the primary amine compound of Formula (6') is used.
- 20. The method of Claim 12 wherein in step (d') an excess of the reducing agent is used.
- 21. The method of Claim 12 wherein the base in step (e') is selected from the group consisting of N-methylmorpholine, triethylamine, N,N-diisopropylethylamine, pyridine and 2,6-lutidine.
- 22. A method for the synthesis of a compound of Formula Ic:

wherein:

 R^1 is selected from the group consisting of $-C_{1-14}$ alkyl and $-(CH_2)_{0-4}$ -aryl; R^3 is selected from the group consisting of $-C_{1-14}$ alkyl, $-(CH_2)_{0-2}$ -cycloalkyl, $-C_{2-6}$ alkenyl, $-(CH_2)_{1-4}$ -aryl, $-(CH_2)_{0-4}$ -heterocycloalkyl, $-(CH_2)_{1-4}$ -heteroaryl and $-(CH_2)_{0-2}$ -O-aryl; or R^6 and R^3 can be taken together with the carbon and nitrogen atoms, respectively, to which they are attached to form a heterocycloalkyl containing an oxo (=0) substitution at the carbon atom; and

 R^6 is selected from the group consisting of $-C_{1-4}alkyl$, $-(CH_2)_{0-2}$ -O-aryl, $-C_{2-6}alkenyl$, $-(CH_2)_{0-2}$ -cycloalkyl and $-(CH_2)_{1-4}$ -aryl; which comprises the steps of :

(a) reacting a compound of Formula 1:

with an alkylating agent of Formula (2):

$$R^1-X$$
 (2)

in the presence of a deprotonation agent in a suitable solvent; where X is iodo or bromo and R¹ is as defined above, to yield an ether compound of Formula (3):

(b) reacting a compound of Formula (3) with a hydrolysing agent, to form a diol compound of Formula (4):

(c) reacting a compound of Formula (4) with a cleaving agent in a suitable solvent to form an aldehyde compound of Formula (5):

(d') reacting a compound of Formula (5) with a primary amine compound of Formula (6'):

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 $R_1^3NH_2$ (6')

where R³ is as defined above, and a reducing agent in a suitable solvent followed by treatment with a reducing agent scavenger resin in a suitable solvent and an amine scavenger resin in a suitable solvent to form a secondary amine compound of Formula (7'):

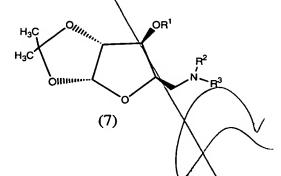
(e") reacting a compound of Formula (7') with an isocyanate compound of Formula (10):

 $R^6NCO \setminus (10)$

where R⁶ is as defined above, in a suitable solvent followed by treatment with an isocyanate scavenger resin in a suitable solvent to form a compound of Formula Ic.

- 23. The method of Claim 22 wherein the suitable solvents are independently selected from the group consisting of dichloromethane, tetrahydrofuran, 1,4-dioxane, lower alkyl alcohols, and mixtures thereof.
- 24. The method of Claim 22 wherein the deprotonation agent in step (a) is KOH or potassium tert-butoxide.
 - 25. The method of Claim 22 wherein the hydrolysing agent in step (b) is 70% acetic acid in water.
- 25 26. The method of Claim 22 wherein the cleaving agent in step (c) is NaIO₄ adsorbed on silica gel.

- 27. The method of Claim 22 wherein the reducing agent in step (d') is selected from the group consisting of NaBH(OAc)₃, NaBH₄, BH₃ in pyridine, and H₂/Pd catalyst.
- 28. The method of Claim 22 wherein the amine scavenger resin in step (d') is solid supportbound isocyanate.
- 29. The method of Claim 22 wherein in step (d') an excess of the primary amine compound of Formula (6') is used.
- 30. The method of Claim 22 wherein in step (d') an excess of the reducing agent is used.
- 31. The method of Claim 22 wherein the isocyanate scavenger resin in step (e") is solid support-bound *tris*(2-aminoethyl) amine or aminomethyl resin.
- 32. A method for the synthesis of a compound of Formula (7):



wherein:

 R^1 is selected from the group consisting of $-\dot{C}_{1-14}$ alkyl and $-(CH_2)_{0-4}$ -aryl;

 R^2 is selected from the group consisting of $-C_{1-1}$ alkyl, $-(CH_2)_{0-2}$ -cycloalkyl, $-C_{2-6}$ alkenyl, $-(CH_2)_{1-4}$ -aryl, $-(CH_2)_{0-4}$ -heterocycloalkyl, $-(CH_2)_{1-4}$ -heteroaryl, $-(CH_2)_{0-2}$ -O-aryl, -C(O)- R^6 and -C(O)- NHR^6 , where R^6 is selected from the group consisting of $-C_{1-4}$ alkyl, $-(CH_2)_{0-2}$ -O-aryl, $-C_{2-6}$ alkenyl, $-(CH_2)_{0-2}$ -cycloalkyl and $-(CH_2)_{1-4}$ -aryl; and

 R^3 is selected from the group consisting of $-C_{1-14}$ alkyl, $-(\dot{C}H_2)_{0-2}$ -cycloalkyl, $-C_{2-6}$ alkenyl, $-(CH_2)_{1-4}$ -aryl, $-(CH_2)_{0-4}$ -heterocycloalkyl, $-(CH_2)_{1-4}$ -heteroaryl and $-(CH_2)_{0-2}$ -O-aryl; or R^2 and R^3 can be taken together with the nitrogen atom to which they

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are attached to form a heterocycloalkyl; which comprises the steps of:

(a) reacting a compound of Formula 1:

with an alkylating agent of Formula (2):

 R^1-X (2)

in the presence of a deprotonation agent in a suitable solvent; where X is iodo or bromo and R¹ is as defined above, to yield an ether compound of Formula (3):

(b) reacting a compound of Formula (3) with a hydrolysing agent, to form a diol compound of Formula (4):

(c) reacting a compound of Formula (4) with a cleaving agent in a suitable solvent to form an aldehyde compound of Formula (5):

(d) reacting a compound of Formula (5) with a secondary amine compound of Formula (6):

 $R^{3}R^{3}NH$ (6) where R^{2} and R^{3} are as defined above, and a reducing agent in a suitable solvent followed by treatment with a reducing agent scavenger resin in a suitable solvent and an amine

scavenger resin in a suitable solvent to form a tertiary amine compound of Formula (7).

33. A method for the synthesis of a compound of Formula (7'):

H₃C O_{IIII} OR¹
H₃C O_{III} OR¹
H₃C O_I OR¹
H₃C O^I O^I OR¹
H₃C O^I O

wherein:

R¹ is selected from the group consisting of -C₁₋₁₄alkyl and -(CH₂)₀₋₄-aryl; and R³ is selected from the group consisting of -C₁₋₁₄alkyl, -(CH₂)₀₋₂-cycloalkyl, -C₂₋₆alkenyl, -(CH₂)₁₋₄-aryl, -(CH₂)₀₋₄-heterocycloalkyl, -(CH₂)₁₋₄-heteroaryl and -(CH₂)₀₋₂-O-aryl; which comprises the steps of :

(a) feacting a compound of Formula 1:

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with an alkylating agent of Formula (2):

 R^{1}/X (2)

in the presence of a deprotonation agent in a suitable solvent; where X is iodo or bromo and R¹ is as defined above, to yield an ether compound of Formula (3):

(b) reacting a compound of Formula (3) with a hydrolysing agent, to form a diol compound of Formula (4):

(c) reacting a compound of Formula (4) with a cleaving agent in a suitable solvent to form an aldehyde compound of Formula (5):

(d') reacting a compound of Formula (5) with a primary amine compound of Formula (6):

(6')

$$R^3NH_2$$

where R³ is as defined above, and a reducing agent in a suitable solvent followed by treatment with a reducing agent scavenger resin in a suitable solvent and an amine scavenger resin in a suitable solvent to form a secondary amine compound of Formula (7').

34. A method for the synthesis of a compound of Formula Ia:

wherein:

R¹ is selected from the group consisting of -C₁₋₁₄alkyl and -(CH₂)₀₋₄-aryl;

 R^2 is selected from the group consisting of $-C_{1-14}$ alkyl, $-(CH_2)_{0-2}$ -cycloalkyl, $-C_{2-6}$ alkenyl, $-(CH_2)_{1-4}$ -aryl, $-(CH_2)_{0-4}$ -heterocycloalkyl, $-(CH_2)_{1-4}$ -heteroaryl and $-(CH_2)_{0-2}$ -O-aryl;

 R^3 is selected from the group consisting of $-C_{1-14}$ alkyl, $-(CH_2)_{0-2}$ -cycloalkyl, $-C_{2-6}$ alkenyl, $-(CH_2)_{1-4}$ -aryl, $-(CH_2)_{0-4}$ -heterocycloalkyl, $-(CH_2)_{1-4}$ -heteroaryl and $-(CH_2)_{0-2}$ -O-aryl; or R^2 and R^3 can be taken together with the nitrogen atom to which they are attached to form a heterocycloalkyl; and

 R^4 is selected from the group consisting of H, $-C_{1-14}$ alkyl, $-(CH_2)_{0-2}$ -cycloalkyl, $-C_{2-6}$ alkenyl, $-C_{2-8}$ alkynyl and $-(CH_2)_{1-2}$ -heterocycloalkyl; which comprises the step of :

(a) reacting a compound of Formula (λ)

where R¹, R², and R³ are as defined above,

R⁴OH (8)

where R^4 is selected from the group consisting of H, $-C_{1-14}$ alkyl, $-(CH_2)_{0-2}$ -cycloalkyl, $-C_{2-6}$ alkenyl, $-C_{2-8}$ alkynyl and $-(CH_2)_{1-2}$ -heterocycloalkyl, and an acid in a suitable solvent followed by treatment with an acid scavenger resin in a suitable solvent to form a compound of Formula Ia.

35. A method for the synthesis of a compound of Formula Ib:

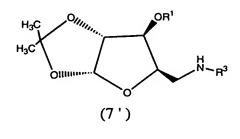
wherein:

 R^1 is selected from the group consisting of $-C_{1-14}$ alkyl and $-(CH_2)_{0-4}$ -aryl;

 R^3 is selected from the group consisting of $-C_{1-14}$ alkyl, $-(CH_2)_{0-2}$ -cycloalkyl, $-C_{2-6}$ alkenyl, $-(CH_2)_{1-4}$ -aryl, $-(CH_2)_{0-4}$ -heterocycloalkyl, $-(CH_2)_{1-4}$ -heteroaryl and $-(CH_2)_{0-2}$ -O-aryl; or R^6 and R^3 can be taken together with the carbon and nitrogen atoms, respectively, to which they are attached to form a heterocycloalkyl containing an oxo (=O) substitution at the carbon atom; and

 R^6 is selected from the group consisting of $-C_{1-4}$ alkyl, $-(CH_2)_{0-2}$ -O-aryl, $-C_{2-6}$ alkenyl, $-(CH_2)_{0-2}$ -cycloalkyl and $-(CH_2)_{1-4}$ -aryl; which comprises the step of :

(a) reacting a compound of Formula (7')



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R⁶COCl (9

where R⁶ is as defined above, and a suitable base in a suitable solvent followed by treatment with an acid chloride scavenger resin in a suitable solvent to form a compound of Formula Ib.

36. A method for the synthesis of a compound of Formula Ic:

wherein:

R¹ is selected from the group consisting of -C₁₋₁₄alkyl and -(CH₂)₀₋₄-aryl;

 R^3 is selected from the group consisting of $-C_{1-14}$ alkyl, $-(CH_2)_{0-2}$ -cycloalkyl, $-C_{2-6}$ alkenyl, $-(CH_2)_{1-4}$ -aryl, $-(CH_2)_{0-4}$ -heterocycloalkyl, $-(CH_2)_{1-4}$ -heteroaryl and $-(CH_2)_{0-2}$ -O-aryl; or R^6 and R^3 can be taken together with the carbon and nitrogen atoms, respectively, to which they are attached to form a heterocycloalkyl containing an oxo (=O) substitution at the carbon atom; and

 R^6 is selected from the group consisting of $-C_{1-4}$ alkyl, $-(CH_2)_{0-2}$ -O-aryl, $-C_{2-6}$ alkenyl, $-(CH_2)_{0-2}$ -cycloalkyl and $-(CH_2)_{1-4}$ -aryl; which comprises the steps of :

(a) reacting a compound of Formula (7)

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R^6NCO (10)

where R⁶ is as defined above, in a suitable solvent followed by treatment with an isocyanate scavenger resin in a suitable solvent to form a compound of Formula Ic.

37. A method for the synthesis of an array compounds of Formula Ia:

wherein:

R¹ is selected from the group consisting of -C₁₋₁₄alkyl and -(CH₂)₀₋₄-aryl;

 R^2 is selected from the group consisting of $-C_{1-14}$ alkyl, $-(CH_2)_{0-2}$ -cycloalkyl, $-C_{2-6}$ alkenyl, $-(CH_2)_{1-4}$ -aryl, $-(CH_2)_{0-4}$ -heterocycloalkyl, $-(CH_2)_{1-4}$ -heteroaryl and $-(CH_2)_{0-2}$ -O-aryl;

 R^3 is selected from the group consisting of $-C_{1-14}$ alkyl, $-(CH_2)_{0-2}$ -cycloalkyl, $-C_{2-6}$ alkenyl, $-(CH_2)_{1-4}$ -aryl, $-(CH_2)_{0-4}$ -heterocycloalkyl, $-(CH_2)_{1-4}$ -heteroaryl and $-(CH_2)_{0-2}$ -O-aryl; or R^2 and R^3 can be taken together with the nitrogen atom to which they are attached to form a heterocycloalkyl; and

 R^4 is selected from the group consisting of H, C_{1-14} alkyl, - $(CH_2)_{0-2}$ -cycloalkyl, - C_{2-6} alkenyl, - C_{2-8} alkynyl and - $(CH_2)_{1-2}$ -heterocycloalkyl; which comprises the step of :

(a) reacting an array of compounds of Formula (7)

where R¹, R², and R³ are as defined above,

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R^4OH (8)

where R^4 is selected from the group consisting of H, $-C_{1-14}$ alkyl, $-(CH_2)_{0-2}$ -cycloalkyl, $-C_{2-6}$ alkenyl, $-C_{2-8}$ alkynyl and $-(CH_2)_{1-2}$ -heterocycloalkyl, and an acid in a suitable solvent followed by treatment with an acid scavenger resin in a suitable solvent to form an array of compounds of Formula Ia.

38. A method for the synthesis of an array of compounds of Formula Ib:

wherein:

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 R^1 is selected from the group consisting of $-C_{1-14}$ alkyl and $-(CH_2)_{0-4}$ -aryl;

 R^3 is selected from the group consisting of $-C_{1-14}$ alkyl, $-(CH_2)_{0-2}$ -cycloalkyl, $-C_{2-6}$ alkenyl, $-(CH_2)_{1-4}$ -aryl, $-(CH_2)_{0-4}$ -heterocycloalkyl, $-(CH_2)_{1-4}$ -heteroaryl and $-(CH_2)_{0-2}$ -O-aryl; or R^6 and R^3 can be taken together with the carbon and nitrogen atoms, respectively, to which they are attached to form a heterocycloalkyl containing an oxo (=O) substitution at the carbon atom, and

 R^6 is selected from the group consisting of -C₁₋₄alkyl, -(CH₂)₀₋₂-O-aryl, -C₂₋₆alkenyl, -(CH₂)₀₋₂-cycloalkyl and -(CH₂)₁₋₄-aryl; which comprises the step of :

(a) reacting an array of compounds of Formula (7')

with an array of acid chloride compounds of Formula (9):

R^6COCI (9)

where R⁶ is as defined above, and a suitable base in a suitable solvent followed by treatment with an acid chloride scavenger resin in a suitable solvent to form an array of compounds of Formula Ib.

39. A method for the synthesis of an array of compounds of Formula Ic:

wherein:

R¹ is selected from the group consisting of -C₁₋₁₄alkyl and -(CH₂)₀₋₄-aryl;

R³ is selected from the group consisting of -C₁₋₁₄alkyl, -(CH₂)₀₋₂-cycloalkyl, -C₂₋₆alkenyl, -(CH₂)₁₋₄-aryl, -(CH₂)₀₋₄-heterocycloalkyl, -(CH₂)₁₋₄-heteroaryl and -(CH₂)₀₋₂-O-aryl; or R⁶ and R³ can be taken together with the carbon and nitrogen atoms, respectively, to which they are attached to form a heterocycloalkyl containing an oxo (=O) substitution at the carbon atom; and

 R^6 is selected from the group consisting of $-C_{1-4}$ alkyl, $-(CH_2)_{0-2}$ -O-aryl, $-C_{2-6}$ alkenyl, $-(CH_2)_{0-2}$ -cycloalkyl and $-(CH_2)_{1-4}$ -aryl; which comprises the steps of :

(a) reacting an array of compounds of Formula (7')

where R⁶ is as defined above, in a suitable solvent followed by treatment with an isocyanate scavenger resin in a suitable solvent to form an array compounds of Formula Ic.

40. A method for the solid phase synthesis of a compound of Formula IIIa

R¹ is selected from the group consisting of -C₁₋₁₄alkyl and -(CH₂)₀₋₄-aryl;

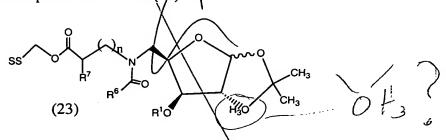
 R^6 is selected from the group consisting of $-C_{1-4}$ alkyl, $-(CH_2)_{0-2}$ -O-aryl, $-C_{2-6}$ alkenyl, $-(CH_2)_{0-2}$ -cycloalkyl and $-(CH_2)_{1-4}$ -aryl;

R⁷ is an amino acid side chain; and

n is an integer from 1-14;

which comprises the step of:

(a) reacting a compound of Formula (2)



where SS is a solid support, and R¹, R⁶, R⁷, and n are as defined above, with an acid in a suitable solvent to form a compound of Formula IIIa.

41. The method according to Claim 40, wherein the acid is trifluoroacetic acid and the solvent is dichloromethane.

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42. Amethod for the solid phase synthesis of a compound of Formula IIIb

wherein:

 R^1 is selected from the group consisting of $-C_{1-14}$ alkyl and $-(CH_2)_{0-4}$ -aryl;

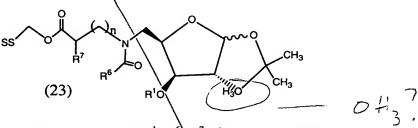
 R^6 is selected from the group consisting of -C₁₋₄alkyl, -(CH₂)₀₋₂-O-aryl, -C₂₋₆alkenyl, -(CH₂)₀₋₂-cycloalkyl and -(CH₂)₁₋₄-aryl;

R⁷ is an amino acid side chain; and

n is an integer from 1\14;

which comprises the step of:

(a) reacting a compound of Formula (23)



where SS is a solid support, and R¹, R⁶, R⁷ and n are as defined above, with an acid in an aqueous solvent to form a compound of Formula IIIb.

- 43. The method according to Claim 42 wherein the acid is trifluoroacetic acid.
- 44. A compound of Formula (7)

where

 $R_{\cdot,i}^{1}$ is selected from the group consisting of $-C_{1-14}$ alkyl and $-(CH_{2})_{0-4}$ -aryl;

R²is selected from the group consisting of -C₁₋₁₄alkyl, -(CH₂)₀₋₂-cycloalkyl, -C₂₋₆alkenyl,

(CH₂)_{1,4}-aryl, -(CH₂)_{0,4}-heterocycloalkyl, -(CH₂)_{1,4}-heteroaryl and

 $-(QH_2)_{0,2}$ -O-aryl; and

 R^3 is selected from the group consisting of $-C_{1-14}$ alkyl, $-(CH_2)_{0-2}$ -cycloalkyl, $-C_{2-6}$ alkenyl, $-(CH_2)_{1-4}$ -aryl, $-(CH_2)_{0-4}$ -heterocycloalkyl, $-(CH_2)_{1-4}$ -heteroaryl and $-(CH_2)_{0-2}$ -Oaryl; or R^2 and R^3 can be taken together with the nitrogen atom to which they are attached to form a heterocycloalkyl.

45. A compound of Formula (7')

where

 R^1 is selected from the group consisting of $-C_{1-14}$ alkyl and $-(CH_2)_{0-4}$ -aryl; and R^3 is selected from the group consisting of $-C_{1-14}$ alkyl, $-(CH_2)_{0-2}$ -cycloalkyl, $-C_{2-6}$ alkenyl, $-(CH_2)_{1-4}$ -aryl, $-(CH_2)_{0-4}$ -heterocycloalkyl, $-(CH_2)_{1-4}$ -heteroaryl and $-(CH_2)_{0-2}$ -O-aryl.

46. A compound selected from:

4-Ethexy-2-isopropoxy-5(4-phenyl-piperzin-1-ylmethyl)-tetrahydro-furan-3-ol;

5-[(Benzyl-phenethyl-amino)-methyl]-4-ethoxy-2-(2-methoxy-ethoxy)-tetrahydro-furan-3-ol;

4-Ethoxy-2-methoxy-5-(1,3,4,5-tetrahydro-pyrido[4,3-b] indol-2-ylmethyl)-tetrahydro-3-

o<u>l;</u>

5-[4-(3-Chloro-phenyl)-piperazinAi-ylmethyl]-2-

cyclopropylmethoxy-4-ethoxy-tetrahydro-furan-3-ol;

5-Diallylaminomethyl-2-isobutoxy 4-(naphthalen-2-ylmethoxy)tetrahydro-furan-3-ol;

2-(3-Methoxy-3-methyl-butoxy)-5-morpholin-4-ylmethyl-

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 $\frac{1}{4}$ (naphthalen-2-yl methoxy)-tetrahydro-3-furan-3-ol; 5-[(Benzyl-methyl-amino)-methyl]-4-(naphthalen-2-yl methoxy)-2pent²2-ynyloxy-tetrahydro-furan-3-ol; 4-Methoxy-5\(4-phenyl-piperazin-1-ylmethyl)-2-propoxy-tetrahydro-furan-3-ol; 2-Cyclopropylmethoxy-5-(3,4-dihydro-1H-isoquinolin-2-ylmethyl)-4-methoxy-tetrahydro-furan-3-ol; 5-[(Benzyl-methyl-amino)-methyl]-4-methoxy-2-pent-2-ynyloxy-tetrahydro-furan-3-ol; 4-Butoxy-2-(2-methoxy-ethoxy)-5-[(methyl-phenethyl-amino)-methyl]-tetrahydro-furan-3-ol; 4-Butoxy-2-methoxy\(\frac{1}{5}\)-(1,3,4,5-tetrahydro-pyrido [4,3-b]indol-2-xlmethyl)-tetrahydro-furan-3-ol; 4-(3-Methoxy-benzyloxy)-2-(3-methoxy-3-methyl-butoxy)-5-morpholin-4-ylmethyl-tetrahydro-furan-3-ol; 5-Diallylaminomethyl-2-isobutoxy-4-(3-methoxy-benzyloxy)-tetrahydro-furan-3-ol; and 5-[(Dibenzylamino)-methyl], 2-ethoxy-4-(3-methoxy-benzyloxy)-tetrahydro-furan-3-ol. 47. A compound selected from: Cyclohexanecarboxylic acid (6-benzyloxy-2,2-dimethyltetrahydro-furo[2,3-d][1,3]diox0\-5-ylmethyl)-(2-diethylamino-ethyl)-amide; N-(6-Benzyloxy-2,2-dimethyl-tetralydro-furo[2,3-d][1,3]dioxol-5-ylmethyl)-N-(2methoxy-benzyl)-2,2-diphenyl-acetamide; N-Butyl-N-[6-(3-methoxy-benzyloxy)\2,2-dimethyltetrahydro-furo[2,3-d][1,3]dioxô[-5-ylmethyl]-benzamide; N-(2,4-Dimethoxy-benzyl)-N-(6-methoxy-2,2-dimethyl-tetrahydrofuro[2,3-d][1,3]dioxol -5-ylmethyl)\2,2-diphenyl-acetamide; Cyclohexanecarboxylic acid (6-benzyloxy-2,2-dimethyl-tetrahydrofuro[2,3-d][1,3]dioxol-5-ylmethyl)-(3-methoxy-propyl)-amide; and N-(1-Benzyl-pyrrolidin-3-yl)-N-[6-(3-methoxy-benzyloxy)-2,2-dimethyl-tetrahydro-furo[2,3-d][1,3]d\doxol-5-ylmethyl]-benzamide. A compound selected from:

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48.

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1-Benzyl-3-ethyl-1-(6-methoxy-2,2-dimethyl-tetrahydro-furo[2,3-d][1,3]dioxol-5-ylmethyl)-urea;

1-(6-Methoxy-2,2-dimethyl-tetrahydro-furo[2,3-d][1,3]dioxol-5-ylmethyl)-3-phenyl-1-(4-trifluoromethoxy-benzyl)-urea;

1-Cyclopropylmethyl-3-isopropyl-1-[6-(3-methoxy-benzyloxy)-2,2-dimethyl-tetrahydro-furo[2,3-d][1,3]dioxol-5-ylmethyl]-urea;

3-Ethyl-1-(6-methoxy-2,2-dimethyl-tetrahydro-furo[2,3-d][1,3]dioxol-5-ylmethyl)-1-phenethyl-urea;

1-(6-Benzyloxy-2,2-dimethyl-tetrahydro-furo[2,3-d][1,3]dioxol-5-ylmethyl)-3-ethyl-1-[2-(1*H*-indol-2-yl)-ethyl]-urea; and

1-Allyl-1-[6-(3-methoxy-benzyloxy)-2,2-dimethyl-tetrahydro-furo[2,3-d][1,3]dioxol-5-ylmethyl]-3-phenyl-urea.

49. A compound selected from:

N-(4,5-Dihydroxy-3-methoxy-tetrahydro-furan-2-ylmethyl)N-(2-methoxy-benzyl) 2,2-diphenyl-acetamide; and
N-Butyl-N-[4,5-dihydroxy-3-(3-methoxy-benzyloxy)-tetrahydro-furan-2-ylmethyl]-benzamide.

50. A compound named 1-(3-benzyloxy-4,5 dihydroxy-tetrahydro-furan-2-ylmethyl)-3-phenyl-1-(4-trifluoromethoxy-benzyl)-urea.